COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER 22221/1030 (RU-339CIP)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

ENZYMES DERIVED FRO		CORGANIS	MS THAT FUNC	TION AS A CE	r (if plural nam	
specification of which (check only o	ne item below):					1-2-
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[X] was filed as U.S. Patent A (if applicable).	pplication Serial No. 09/	716,964 oa No	vember 21, 2000 and	Mat susuced on		
a a por laterati	ional Application No		and was a	mended under PC	T Article 19 or	a .
(if applicable). preby state that I have reviewed and	understand the contents	of the above id	lentified specification	s, including the ci	laims, as amend	sed by any
endment reterred to above the chrowledge the duty to disclose infederal Regulations, § 1.56(a). Between the chromosomer than the chrom	Title 35 United States C	ode, § 119 of a	my application(s) for	patent or inventor	's certificate or	of any PCT
emational applications of inventor's plication(s) for patent or inventor's stee of America filed by me on the s	certificate or any PCT in same subject matter having	ternational app ng a filing date	dication(s) designation before that of the app	g at least one cou lication(s) of whi	ntry other than ich priority is c	the United
rior application(s) and an	Y PRIORITY CLAIMS	UNDER 35 U.	S.C. 119:			
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COUNTRY	APPLICATION		DATE OF FILI (day, month, y		UNDER 35 U	AIMED SC 119
		NUMBER	DATEOLLIN	<u>='</u>)		SC 119
COUNTRY (IF PCT, indicate "PCT") United States	APPLICATION 60/043,	NUMBER	(day, month, M	77	UNDER 35 U [X] YES []	100 100
COUNTRY (IF PCT, indicate "PCT") United States hereby claim the benefit under Title lesignating the United States of Amelisclosed in that/those prior application duty to disclose material informs.	APPLICATION 60/043, 235, United States Code, crica that is/are listed bel ion(a) in the manner provision as defined in Title 3	\$ 120 of any to ow and, insofarided by the fur filling date of fed.	(day, month, M 8-APRIL-19: United States applicate as the subject matter its paragraph of Title leval Regulations, § 1 his application:	ion(s) or PCT introfeach of the ci	[] YES [] emational appliants of this ap Code, § 112, 1 arred between t	INO INO INO Incation(a) plication is not acknowledge the filing date of
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COUNTRY (IF PCT, indicate "PCT") United States I hereby claim the benefit under Title designating the United States of Arms disclosed in that/those prior application the duty to disclose material informat the prior application(s) and the nation PRIOR U.S. APPLICATIONS OR P 120: U.S. APPLIC U.S. APPLICATION N 09/642,218 09/057,416 PCT APPLIC	APPLICATION 60/043, 535, United States Code, crica that is/are listed bel ion(s) in the manner provision as defined in Title 3 mal or PCT International PCT INTERNATIONAL CATIONS NUMBER	\$ 120 of any toward, insofts yield by the fir 7, Code of Fed filing date of the APPLICATION U.S. F. Aug. Application Applicat	(day, month, M 8-APRIL-19: 8-APRIL-19: United States applicat r as the subject matte st paragraph of Title leval Regulations, § 1 his application: DNS DESIGNATING ILING DATE 1118, 2000 118, 1998	ion(s) or PCT introfeach of the class, United States .56(a) which occurs THE U.S. FOR	UNDER 35 U [X] YES [] crustional appliaims of this ap Code, § 112, 1 mred between the BENEFIT UNI ok One) PENDING	INO
COUNTRY (IF PCT, indicate "PCT") United States hereby claim the benefit under Title lesignating the United States of Arms lisclosed in that/those prior application the duty to disclose material informs the prior application(s) and the nation PRIOR U.S. APPLICATIONS OR F 120: U.S. APPLICATION N 09/642,218	APPLICATION 60/043, e 35, United States Code, crica that is/are listed bel- tion as defined in Title 3 nal or PCT International PCT INTERNATIONAL CATIONS NUMBER	S 120 of any toward, insofarided by the fir 7, Code of Fed filing date of the APPLICATION U.S. FAugust 16 THE U.S. EU.S. SEL U.S. SEL U.S. SEL	(day, month, M 8-APRIL-19 8-APRIL-19 United States applicate as the subject matter st paragraph of Title leval Regulations, § 1 his application: DNS DESIGNATING	ion(s) or PCT introfeach of the class, United States .56(a) which occurs THE U.S. FOR	UNDER 35 U [X] YES [] crustional appliaims of this ap Code, § 112, 1 mred between the BENEFIT UNI ok One) PENDING	INO

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Continue)

ATTORNEY'S DOCKET NUMBER
22221/1030 (RU-339CIP)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(a) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. Michael L. Goldman, Registration No. 30,727; Joseph M. Noto, Registration No. 32,163; Gunnar G. Leinberg, Registration No. 35,584; Edwin V. Merkel, Registration No. 40,087; Georgia Evans, Registration No. 44,597; Alice Y. Choi, Registration No. 45,758

		Georgia Evans, region anon 140, 44	Joseph Cond Colonia	
Sond	d Correspondence to:	NIXON PEABODY LL. Clinton Square, P.O. Bo Rochester, New York 14	ox 31051 4603	Direct Telephone Calls to: (name and telephone number) Michael L. Goldman (716) 263-1304
	FULL NAME OF INVENTOR	FAMILY NAME O'Doznell	FIRST GIVEN NAME Michael	SECOND GIVEN NAME
2 0 1	RESIDENCE & CITIZENSHIP	CITY Hastings-on-Hudson	STATE/FOREIGN COUNT New York	TRY COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	P.O. ADDRESS 16 Maple Lane	CITY Hastings-on-Hudson	STATE & ZIP CODE/CTRY New York 10706/USA
	FULL NAME OF INVENTOR	FAMILY NAME Yuzhakev	FIRST GIVEN NAME Alexander	SECOND GIVEN NAME
2 0 2	RESIDENCE & CITIZENSHIP	CITY Maiden	STATE/FOREIGN COUNT Massachusetts	TRY COUNTRY OF CITIZENSHIP Russia
	POST OFFICE ADDRESS	P.O. ADDRESS 25 Bayrd Street	CITY Malden	STATE & ZIP CODE/CTRY Massachusetts 02148/USA
2	FULL NAME OF INVENTOR	FAMILY NAME Yurieva	FIRST GIVEN NAME Olga	SECOND GIVEN NAME
0 3	RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUNT New York	TRY COUNTRY OF CITIZENSHIP Russia
	POST OFFICE ADDRESS	P.O. ADDRESS 430 East 63 rd Str., Apt. 3G	CITY New York	STATE & ZIP CODE/CTRY New York 10021/USA
2	FULL NAME OF INVENTOR	FAMILY NAME Jeruzajini	FIRST GIVEN NAME David	SECOND GIVEN NAME
0 4	RESIDENCE & CITIZENSHIP	Now York Now York Now York	1404 101K 1-1472 MEMORY	
			osivies Cambridge	Daley Jan Tanay Cole
2	FULL NAME OF INVENTOR	FAMILY NAME Bruck	FIRST GIVEN NAME	SECOND GIVEN NAME
0 5	RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUNT New York	TRY COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	P.O. ADDRESS 1161 York Avenue, Apt. 11M	CITY New York	STATE & ZIP CODE/CTRY New York 10021/USA
	FULL NAME OF INVENTOR	FAMILY NAME Kuriyan	FIRST GIVEN NAME John	SECOND GIVEN NAME
2 0 6	RESIDENCE & CITIZENSHIP	CITY Berkeley	STATE/FOREIGN COUNT California	TRY COUNTRY OF CITIZENSHIP United States
	ligar offices l	P.O. ADDRESS 936 Oxford Street	CITY Berkeley	STATE & ZIP CODE/CTRY California 94707/USA

I hereby declare that all statements made herein of my wn knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201

DATE

Page 3 of 3

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER 22221/1030 (RU-339CIP)

As a below	named inventor, I be	creby declare	that:					
My resident	ce, post office addre	ss and citizen	ship are as stated	i below next to	my name.		•	
l believe l s listed belov	un the original, first	and sole inve	ntor (if only one laimed and for w	name is listed hich a petent i	below) or an original, is sought on the invent	first and joint invited;	rentor (if plural	names are
ENZ	ZYMES DERIVE				nisms that ful on and use the		CHROMOS	OMAL
the specific	ation of which (chec	k only one in	em below):					
£.]	is attached hereto.		•			•		
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[]	was filed as PCT I	international	Application No.		and wa	s amended under	PCT Article 19	on
:	(if applicable).	. :	* (
I bereby su amendmen	ate that I have review Creferred to above.	ved and under	stand the conten	its of the above	identified specificati	ons, including the	claims, as am	ended by any
I acknowle Federal Re	dge the duty to discle	ose informati	on which is mate	crial to the pat	entability of this applic	cation in ecoorder	nce with Title 3	7, Code of
internation application States of A	al application(s) desi	ignating at lea mor's certific on the same su	ast one country of sate or any PCT abject matter have	other than the U international a ring a filing do	f any application(s) for Inited States listed bel pplication(s) designation are before that of the application (s)	ow and have also ing at least one or	identified belo ountry other the	ow any in the United
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	United States		60/043	3,202	8-APRIL-19	97	[X] YES[JNO
 							[]YES[) NO
I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT International filing date of this application: PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C.								
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Page 1 of 3

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Continue)

ATTORNEY'S DOCKET NUMBER
22221/1030 (RU-339CIP)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. Michael L. Goldman, Registration No. 30,727; Joseph M. Noto, Registration No. 32,163; Gunnar G. Leinberg, Registration No. 35,584; Edwin V. Merkel, Registration No. 40,087; Georgia Evana, Registration No. 44,597; Alice Y. Choi, Registration No. 45,758

Send	Correspondence to:

Michael L. Goldman NIXON PEABODY LLP Clinton Square, P.O. Box 31051 Rochester, New York 14603 Direct Telephone Calls to: (name and telephone number) Michael L. Goldman

Rochester, New York 14603			63-13 84	
FULL NAME OF INVENTOR	FAMILY NAME O'Donnell	FIRST GIVEN NAME Michael		SECOND GIVEN NAME E.
RESIDENCE & CITIZENSHIP	CITY Hastings-on-Hudson	STATE/FOREIGN COUNT New York		COUNTRY OF CITIZENSHIP United States
POST OFFICE ADDRESS	16 Maple Lane	CITY Hastings-on-Hudson		STATE & ZIP CODE/CTRY New York 10706/USA
FULL NAME OF INVENTOR	Yuzhakov	Alexander		SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY Malden	Massachusetta		COUNTRY OF CITIZENSHIP United States (from 11/07/02)
POST OFFICE ADDRESS	P.O. ADDRESS 25 Bayrd Street	Malden		STATE & ZIP CODE/CTRY Massachusetts 02148/USA
FULL NAME OF INVENTOR	FAMILY NAME Yorieva	FIRST GIVEN NAME Olga		SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUNT New York	TRY	COUNTRY OF CITIZENSHIP Russia
POST OFFICE ADDRESS	430 East 63rd Str., Apt. 3G	CITY New York		STATE & ZIP CODE/CTRY New York 10021/USA
FULL NAME OF INVENTOR	FAMILY NAME Jeruzalmi	FIRST GIVEN NAME David		SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUN New York	TRY	COUNTRY OF CITIZENSHIP United States
POST OFFICE ADDRESS	P.O. ADDRESS 1161 York Avenue, #111	CITY New York		STATE & ZIP CODE/CTRY New York 10021/USA
FULL NAME OF INVENTOR	FAMILY NAME Bruck	FIRST GIVEN NAME		SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	New York	STATE/FOREIGN COUN New York	TRY	COUNTRY OF CITIZENSHIP United States
POST OFFICE ADDRESS	P.O. ADDRESS 1161 York Avenue, Apt. 11M	CITY New York		STATE & ZIP CODE/CTRY New York 10021/USA
FULL NAME OF INVENTOR	FAMILY NAME Kuriyan	FIRST GIVEN NAME John		SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY Berkeley	STATE/FOREIGN COUN California	TRY	COUNTRY OF CITIZENSHIP United States
POST OFFICE ADDRESS	P.O. ADDRESS 936 Oxford Street	CITY Berkeley		STATE & ZIP CODE/CTRY California 94707/USA
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Page 2 of 3

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patem issuing thereon. SIGNATURE OF INVENTOR 203 SIGNATURE OF INVENTOR 201 SIGNATURE OF INVENTOR 202 DATE DATE DATE SIGNATURE OF INVENTOR 206 SIGNATURE OF INVENTOR 205 SIGNATURE OF INVENTOR 204 DATE DATE DATE

Page 3 of 3

COMBINED DEG-ARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER
22221/1030 (RU-339CIP)

As a below named inventor, I hereby declare that:

My residence, post ffice address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ENZYMES DERIVE	D FROM THERMOPH REPLICASE, P.		GANISMS THAT FU FION AND USE THE		CHROMO	SOMAL
the specification of which (chec	k only one item below):		11			
[] is attached hereto.	•					` . \
[X] was filed as U.S. P (if applicable).	atent Application Serial No.	. 09/716,964	on November 21, 2000	and was amended	i on	<u>-</u>
[] was filed as PCT I	nternational Application No	• ———	_ on and wa	s amended under	PCT Article 1	9 on
(if applicable).						
I hereby state that I have review amendment referred to above.	ed and understand the conte	nts of the ab	ove-identified specificati	ons, including the	e claims, as am	ended by any
I acknowledge the duty to disclo Federal Regulations, § 1.56(a).						. 1
I hereby claim priority benefits a international application(s) design application(s) for patent or inverse States of America filed by me of	gnating at least one country of tor's certificate or any PCT	other than th internations	ne United States listed belt al application(s) designation	low and have also ing at least one o	o identified belountry other th	ow any an the United
PRIOR APPLICATION(S) ANI	O ANY PRIORITY CLAIM	S UNDER 3	35 U.S.C. 119:			
COUNTRY (IF PCT, indicate "PCT) APPLICATIO	ON NUMBE	DATE OF FIL (day, month,)		PRIORITY O UNDER 35	
United States	60/04	3,202	8-APRIL-19	97	[X] YES[] NO	
					[]YES[]NO	
I hereby claim the benefit under designating the United States of disclosed in that/those prior app the duty to disclose material info the prior application(s) and the r	America that is/are listed be lication(s) in the manner pro ormation as defined in Title	elow and, insovided by the 37, Code of	sofar as the subject matte e first paragraph of Title Federal Regulations, § I	ar of each of the of 35, United States	claims of this a Code, § 112, l	pplication is not acknowledge
PRIOR U.S. APPLICATIONS (120:	OR PCT INTERNATIONAL	L APPLICA	TIONS DESIGNATING	THE U.S. FOR	BENEFIT UN	DER 35 U.S.C.
U.S. AP	PLICATIONS		·	STATUS (Che	ck One)	
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09/057,	416		April 8, 1998	· · · · · · · · · · · · · · · · · · ·	·	х
PCT APP	LICATIONS DESIGNATIN					
PCT APPLICATION NO.	PCT FILING DATE		ERIAL NUMBERS SIGNED (if any)			
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COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Continue)

ATTORNEY'S DOCKET NUMBER 22221/1030 (RU-339CIP)

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Send Correspondence to:

Michael L. Goldman NIXON PEABODY LLP Clinton Square, P.O. Box 31051 Rochester, New York 14603 Direct Telephone Calls to: (name and telephone number) Michael L. Goldman (716) 263-1304

		Rochester, New York 1	14603 (716)	263-1304
	FULL NAME	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	OF INVENTOR	O'Donnell	Michael	E.
2	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0	CITIZENSHIP	Hastings-on-Hudson	New York	United States
1	POST OFFICE	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
	ADDRESS	16 Maple Lane	Hastings-on-Hudson	New York 10706/USA
	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	INVENTOR	Yuzhakov	Alexander	
2	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0 2	CITIZENSHIP	Malden	Massachusetts	Russia
_	POST OFFICE	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
	ADDRESS	25 Bayrd Street	Malden	Massachusetts 02148/USA
	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	INVENTOR	Yurieva	Olga	
2	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
3	CITIZENSHIP	New York	New York	Russia
	POST OFFICE	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
	ADDRESS	430 East 63rd Str., Apt. 3G	New York	New York 10021/USA
	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	INVENTOR	Jeruzalmi	David	
2	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
4	CITIZENSHIP	New York	New York	United States
	POST OFFICE	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
	ADDRESS	1161 York Avenue, #11I	New York	New York 10021/USA
	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
1	INVENTOR	Bruck	Irina	Live No.
2	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
5	CITIZENSHIP	New York	New York	United States
1	POST OFFICE	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
	ADDRESS	1161 York Avenue, Apt. 11M	New York	New York 10021/USA
·	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
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DATE 2/14/2003	DATE	DATE 2/14/03
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE	DATE 2/14/03	DATE

Page 3 of 3

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER 22221/1030 (RU-339CIP)

ed inventor, I hereby declare that:

elow r	named inventor, I hereby de						• •
esidenc	ce, post office address and c	itizenship are as stated bel	ow next to my	in in the second		/!# about nee	1
	on the original, fust and solution of the subject matter which						
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specific	cation of which (check only	one item below):	,				
[]	is attached hereto.						·
DX3	was filed as U.S. Patent a (if applicable).	Application Scrial No. 09/	716,964 oa Ne				
[]	was filed as PCT Interna	tional Application No	00	and was	amended under Po	CT Article 19 0	•
	(if applicable).						
: 	tate that I have reviewed an	d understand the contents	of the above-is	dentified specification	is, including the c	laims, as amen	ded by any
denow	Aedge the duty to disclose in	formation which is materi	al to the paters	tability of this applica	tion in accordanc	e with Title 37,	Cogo or
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COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Continue)

ATTORNEY'S DOCKET NUMBER
22221/1030 (RU-339CIP)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. Michael L. Goldman, Registration No. 30,727; Joseph M. Noto, Registration No. 32,163; Gunnar G. Leinberg, Registration No. 35,584; Edwin V. Merkel, Registration No. 40,087; Georgia Evans, Registration No. 44,597; Alice Y. Chol, Registration No. 45,758

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	ADDRESS	220 OTTOLO PROFILE TIME KY	Delydes	Page 2 of 3

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issuing thereon.

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